	1	Document ID	Issue Date	Title	Current OR	Inventor	3	4	5
1		US 20060215202 A1	20060928	Method of protecting leakage of information and information processing apparatus and driver program implementing the same	358/1.13	Nakata; Hiroaki et al.			
2		US 20060147236 A1	20060706	Printing control apparatus and printing control method	400/62	Uchida; Tatsuro et al.			
3		US 20060140699 A1	20060629	Printing control apparatus, printing control method and computer-readable medium	400/62	Uchida; Tatsuro et al.			
4		US 20060119887 A1	20060608	Information processing apparatus, printing system, and control method therefor	358/1.15	Aritomi; Masanori et al.			
5		US 20060110200 A1	20060525	Method of protecting leakage of information, and information processing apparatus and driver program which implement the method	400/76	Kujirai; Yasuhiro et al.			

	1	Document ID	Issue Date	Title	Current OR	Inventor	3	4	5
6		US 2006008 2803 A1	20060420	Information processing apparatus, print data forming method, print control program, and memory medium	358/1.13	Nishikawa; Satoshi et al.			
7		US 2006006 6884 A1	20060330	Printing control apparatus and method of controlling the printing thereof	358/1.13	Kato; Takeaki			
8		US 2005023 1762 A1	20051020	Information processor, method for processing information and memory medium for storing program readable by computer	358/1.15	Nishikawa, Satoshi et al.			
9		US 2005017 9926 A1	20050818	Information processor, method for processing information and memory medium for storing program readable by computer	358/1.13	Nishikawa, Satoshi et al.			
10		US 2005017 4596 A1	20050811	Information processing apparatus and method for processing information	358/1.14	Uchida, Tatsuro et al.			

	1	Document ID	Issue Date	Title	Current OR	Inventor	3	4	5
11		US 20050135856 A1	20050623	Printing control apparatus and printing control method	399/411	Uchida, Tatsuro et al.			
12		US 20050088701 A1	20050428	Information processing apparatus and method for processing information	358/3.28	Uchida, Tatsuro et al.			
13		US 20050030334 A1	20050210	Data processing apparatus, print control method, computer-readable storage medium, and program stored therein	347/19	Kai, Hiroshi et al.			
14		US 20040130741 A1	20040708	System for face-up tiff printing	358/1.13	Ferlitsch, Andrew Rodney			
15		US 20040114184 A1	20040617	Printing control method	358/1.18	Sugiyama, Kouichi			
16		US 20030184799 A1	20031002	Load balancing print jobs across multiple printing devices	358/1.15	Ferlitsch, Andrew Rodney			
17		US 20030011802 A1	20030116	Printing control apparatus and display method therefor	358/1.13	Nakagiri, Koji et al.			

	1	Document ID	Issue Date	Title	Current OR	Inventor	3	4	5
18		US 2003000 7181 A1	20030109	Information processing apparatus and control method therefor	358/1.18	Nishikawa, Satoshi et al.			
19		US 2002005 2897 A1	20020502	Information processing apparatus, print data forming method, print control program, and memory medium	707/527	Nishikawa, Satoshi et al.			
20		US 2002002 6453 A1	20020228	Information processing apparatus and method for creating print data and storage medium	707/104.1	Mori, Yasuo et al.			
21		US 2002001 6799 A1	20020207	Print control apparatus and control method	715/517	Nakagiri, Koji et al.			
22		US 7168868 B2	20070130	Printing control apparatus, printing control method, and computer-readable medium including a copy-forgery-inhibited pattern image	400/62	Uchida; Tatsuro et al.			

23		US 7161711 B2	20070109	Information processing apparatus and method for creating print data and storage medium	358/1.9	Mori; Yasuo et al.			

	1	Document ID	Issue Date	Title	Current OR	Inventor	3	4	5
24		US 7161691 B2	20070109	Method and apparatus for multiple media printing	358/1.13	Nakagiri; Koji et al.			
25		US 7154627 B2	20061226	Information processor, method for processing information and memory medium for storing program readable by computer	358/1.15	Nishikawa; Satoshi et al.			
26		US 7131775 B2	20061107	Printing control apparatus and printing control method including a copy-forgery-inhibited pattern image	400/62	Uchida; Tatsuro et al.			
27		US 7092111 B2	20060815	Information processing apparatus, print data forming method, print control program, and memory medium	358/1.1	Nishikawa; Satoshi et al.			
28		US 7031001 B2	20060418	Print control apparatus and control method	358/1.1	Nakagiri; Koji et al.			

	1	Document ID	Issue Date	Title	Current OR	Inventor	3	4	5
29		US 6934046 B1	20050823	Information processor, method for processing information and memory medium for storing program readable by computer	358/1.15	Nishikawa; Satoshi et al.			
30		US 6687018 B1	20040203	System and method for distributing print jobs	358/1.15	Leong; Gilbert Kwock Keong et al.			
31		JP 2000112684 A	20000421	DOCUMENT PRINTING SYSTEM		SHIMOKAWA, KATSUMI			
32		EP 1168152 A	20020102	Print control program for printer connected to computer system, reformats spooled print data according to document formatting information so that printer receives data from computer in desired order		SANCHEZ, G A			
33	X	US 5528734 A	19960618	Printer control system with color type document handling	358/1.16	Sanchez; George A.			

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1 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research CASCON '97**

Publisher: IBM Press

Full text available: pdf(4.21 MB) Additional Information: full citation, abstract, references, index terms

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

2 WYLBUR: an interactive text editing and remote job entry system

Roger Fajman, John Borgelt

May 1973 **Communications of the ACM**, Volume 16 Issue 5

Publisher: ACM Press

Full text available: pdf(1.06 MB) Additional Information: full citation, abstract, references, citings

WYLBUR is a comprehensive system for manipulating all kinds of text, such as computer programs, letters, and manuscripts, using typewriter terminals connected to a computer. It has facilities for remote job entry and retrieval as well as facilities for text alignment and justification. A powerful method for addressing text by content is provided. This paper describes the external appearance of WYLBUR as well as its internal structure. A short description of the major features of ORVYL, a ge ...

Keywords: content addressing, data entry, document preparation, interactive terminal, interactive text editing, online text editing, program preparation, remote job entry, remote job retrieval, remote terminal, terminal, terminal system, text editing, time-sharing

3 What does aspect-oriented programming mean to Cobol?

Ralf Lämmel, Kris De Schutter

March 2005 **Proceedings of the 4th international conference on Aspect-oriented software development AOSD '05**

Publisher: ACM Press

Full text available: pdf(172.28 KB) Additional Information: full citation, abstract, references, citings, index terms

We study AOP in the context of business programming with Cobol. We face the following questions: What are join points in Cobol programs? What is advice? Does classic Cobol

provide any constructs that hint at AOP? (Yes!) What are typical crosscutting concerns in the Cobol world? How do otherwise typical crosscutting concerns make sense for Cobol? How does AOP for Cobol align with classic re-engineering transformations for Cobol? We deliver an AOP language design for Cobol. Codename: AspectCobol. ...

Keywords: Cobol, aspect-oriented programming, business programming

4 Personal work-stations at the University of Waterloo

Sandra Ward
November 1984 **Proceedings of the 12th annual ACM SIGUCCS conference on User services SIGUCCS '84**
Publisher: ACM Press
Full text available: pdf(465.03 KB) Additional Information: full citation, abstract, index terms

Students and faculty at the University of Waterloo are using the IBM Personal Computer as a powerful workstation to develop programs, and do their applications. The PCs are connected using two different network technologies. In one case, the PCs are connected into a micro-mainframe network called Waterloo PC Network, which allows both files and software to be located in a centralized file system accessed from any PC. Since the language and applications software is portable and runs on both ...

5 The MS-DOS memory environment

Jerry Crow
January 1996 **ACM SIGICE Bulletin**, Volume 21 Issue 3
Publisher: ACM Press
Full text available: pdf(1.25 MB) Additional Information: full citation, abstract, index terms

When I first started experimenting with and using MS-DOS in 1986, I was confused by the various types of memory available with the then contemporary PCs: expanded, extended, enhanced expanded, etc. I found that I was frequently asked to explain the concepts associated with these terms and, frankly, could not do so. I decided to remedy that situation by researching the subject and acquiring sufficient knowledge to permit me to understand what was happening from a hardware and software standpoint ...

6 Telecommunications earnings estimation model (TEEM)

Wayne H. Wagner, Lawrence T. Akutagawa, Larry J. Cuneo
December 1969 **Proceedings of the third conference on Applications of simulation**
Publisher: Winter Simulation Conference
Full text available: pdf(856.56 KB) Additional Information: full citation, abstract, index terms

TEEM is a corporate simulation model developed for the Security Analysts of Wells Fargo Bank. It is a probabilistic interactive model designed to estimate an income statement and a funds flow analysis for any manufacturing or distribution firm for which history data is readily available. The primary objective is to generate more accurate, systematic, and consistent estimates for companies which are of investment interest to Trust accounts. Both the analyst and the computer contribute unique ...

7 ACM forum: letters

January 1976 **Communications of the ACM**, Volume 19 Issue 1
Publisher: ACM Press
Full text available: pdf(773.64 KB) Additional Information: full citation, references

8 Flexible collaboration transparency: supporting worker independence in replicated application-sharing systems

James Begole, Mary Beth Rosson, Clifford A. Shaffer
June 1999 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 6 Issue 2

Publisher: ACM Press

Full text available: pdf(312.22 KB) Additional Information: full citation, abstract, references, citings, index terms, review

This article presents a critique of conventional collaboration transparency systems, also called "application-sharing" systems, which provide the real-time shared use of legacy single-user applications. We find that conventional collaboration transparency systems are inefficient in their use of network resources and lack support for key groupware principles: concurrent work, relaxed WYSIWIS, and group awareness. Next, we present an alternative approach to implementing collaborat ...

Keywords: Flexible JAMM, Java, application sharing, collaboration transparency, computer-supported cooperative work, groupware, usability

9 Pitfalls and safeguards in real-time digital systems with emphasis on programming

W. A. Hosier

March 1987 **Proceedings of the 9th international conference on Software Engineering ICSE '87**

Publisher: IEEE Computer Society Press

Full text available: pdf(1.98 MB) Additional Information: full citation, abstract, references, citings, index terms

Real-time digital systems are largely a technical innovation of the past decade, but they appear destined to become more wide spread in the future. They monitor or control a real physical environment, such as an air-traffic situation, as distinguished from simulating that environment on an arbitrary time scale. The complexity and rapid variation of such an environment necessitates use of a fast and versatile central-control device, a role well suited to digital computers. The usual system w ...

10 Security Mechanisms in High-Level Network Protocols

Victor L. Voydock, Stephen T. Kent

June 1983 **ACM Computing Surveys (CSUR)**, Volume 15 Issue 2

Publisher: ACM Press

Full text available: pdf(3.23 MB) Additional Information: full citation, references, citings

11 A directed random paragraph generator

Stanley Y. W. Su, Kenneth E. Harper

September 1969 **Proceedings of the 1969 conference on Computational linguistics**

Publisher: Association for Computational Linguistics

Full text available: pdf(852.71 KB) Additional Information: full citation, citings

12 Exploring the tradeoff between performance and data freshness in database-driven Web servers

Alexandros Labrinidis, Nick Roussopoulos

September 2004 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 13 Issue 3

Publisher: Springer-Verlag New York, Inc.

Full text available: pdf(387.89 KB) Additional Information: full citation, abstract, index terms

Personalization, advertising, and the sheer volume of online data generate a staggering amount of dynamic Web content. In addition to Web caching, view materialization has been shown to accelerate the generation of dynamic Web content. View materialization is an attractive solution as it decouples the serving of access requests from the handling of updates. In the context of the Web, selecting which views to materialize must be decided online and needs to consider both performance and data fresh ...

13 Data security and protection: Winnowing: local algorithms for document fingerprinting

Saul Schleimer, Daniel S. Wilkerson, Alex Aiken
June 2003 **Proceedings of the 2003 ACM SIGMOD international conference on Management of data SIGMOD '03**
Publisher: ACM Press

Full text available: pdf(180.16 KB) Additional Information: full citation, abstract, references, citings, index terms

Digital content is for copying: quotation, revision, plagiarism, and file sharing all create copies. Document fingerprinting is concerned with accurately identifying copying, including small partial copies, within large sets of documents.We introduce the class of *local* document fingerprinting algorithms, which seems to capture an essential property of any finger-printing technique guaranteed to detect copies. We prove a novel lower bound on the performance of any local algorithm. We also ...

14 Personal distributed computing: the Alto and Ethernet software

Butler Lampson
January 1986 **Proceedings of the ACM Conference on The history of personal workstations**
Publisher: ACM Press

Full text available: pdf(3.00 MB) Additional Information: full citation, abstract, references, citings, index terms

The personal distributed computing system based on the Alto and the Ethernet was a major effort to make computers help people to think and communicate. The paper describes the complex and diverse collection of software that was built to pursue this goal, ranging from operating systems, programming environments, and communications software to printing and file servers, user interfaces, and applications such as editors, illustrators, and mail systems.

15 Proceedings of the SIGNUM conference on the programming environment for development of numerical software

March 1979 **ACM SIGNUM Newsletter**, Volume 14 Issue 1
Publisher: ACM Press
Full text available: pdf(5.02 MB) Additional Information: full citation

16 Data replicas in distributed information services

H. M. Gladney
March 1989 **ACM Transactions on Database Systems (TODS)**, Volume 14 Issue 1
Publisher: ACM Press

Full text available: pdf(1.94 MB) Additional Information: full citation, abstract, references, index terms, review

In an information distribution network in which records are repeatedly read, it is cost-effective to keep read-only copies in work locations. This paper presents a method of updating replicas that need not be immediately synchronized with the source data or with each other. The method allows an arbitrary mapping from source records to replica records. It is fail-safe, maximizes workstation autonomy, and is well suited to a network with slow, unreliable, and/or expensive communications links ...

17 Interactive semantic analysis of English paragraphs

Yorick Wilks
September 1969 **Proceedings of the 1969 conference on Computational linguistics**
Publisher: Association for Computational Linguistics
Full text available: pdf(1.22 MB) Additional Information: full citation, abstract, references

This paper describes the use of an on-line system to do word-sense ambiguity resolution and content analysis of English text paragraphs, using a system of semantic analysis programmed in Q32 LISP 1.5. The system of semantic analysis comprised dictionary

codings for the text words, coded forms of permitted message, and rules producing message forms in combination on the basis of a criterion of semantic closeness. All these can be expressed within a single system of rules of phrase-structure form. ...

Keywords: interpretation, language analysis, semantics, template

18 Errata, amendments and interpretations for the Fortran 90 standards document

Jerrold L. Wagener
March 1993 **ACM SIGPLAN Fortran Forum**, Volume 12 Issue 1
Publisher: ACM Press
Full text available: pdf(2.60 MB) Additional Information: full citation, index terms

19 Distributed operating systems

Andrew S. Tanenbaum, Robbert Van Renesse
December 1985 **ACM Computing Surveys (CSUR)**, Volume 17 Issue 4
Publisher: ACM Press
Full text available: pdf(5.49 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Distributed operating systems have many aspects in common with centralized ones, but they also differ in certain ways. This paper is intended as an introduction to distributed operating systems, and especially to current university research about them. After a discussion of what constitutes a distributed operating system and how it is distinguished from a computer network, various key design issues are discussed. Then several examples of current research projects are examined in some detail ...

20 Issues in web design: Meeting the needs of users: toward a semiotics of the web

Karl L. Smart, Judy Cossell Rice, Larry E. Wood
September 2000 **Proceedings of IEEE professional communication society international professional communication conference and Proceedings of the 18th annual ACM international conference on Computer documentation: technology & teamwork IPCC/SIGDOC '00**
Publisher: IEEE Educational Activities Department
Full text available: pdf(862.40 KB) Additional Information: full citation, abstract, references

The tremendous growth of the Internet has brought a heightened awareness of the importance of designing information to meet customers' needs. Although we may never develop universal design standards that apply to every situation, we need more empirically supported guidelines to inform design decisions. Guidelines must be based on commonly shared semiology of Web conventions. A semiotics of the Web can help us determine how meaning is derived from Web pages and the Web, and in turn how to better ...

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